

EA ST

L Number	Hits	Search Text	DB	Time stamp
11	17	brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:36
12	24	brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:36
13	7	(brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not (brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:38
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15	1	("4450940").PN.	USPAT; US-PGPUB	2004/03/17 08:38
16	17	(brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not ((brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not (brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:50
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18	4	4540069.URPN.	USPAT	2004/03/17 08:41

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		0	D476275.URPN.	USPAT	2004/03/17 05:56
		8	("D291189" "5538105" "D378363" "D397968" "D417178" "D458199" "D468242" "D468243").PN.	USPAT	2004/03/17 05:56
		6	D291189.URPN.	USPAT	2004/03/17 05:57
		1	D397968.URPN.	USPAT	2004/03/17 05:58
		2	("D291189" "D377774").PN.	USPAT	2004/03/17 05:58
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		2	("D291189" "D377774").PN.	USPAT	2004/03/17 05:59
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	558		brak\$4 same caliper same (enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/17 06:33
		25	brak\$4 same caliper same (dust adj cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/17 06:04
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		1	4295549.URPN.	USPAT	2004/03/17 06:06
		1	"4005768".PN.	USPAT	2004/03/17 06:06
		3	4085824.URPN.	USPAT	2004/03/17 06:07
		2	("3354992" "3972391").PN.	USPAT	2004/03/17 06:07
		7	(US-6578678-\$ or US-6371260-\$ or US-4295549-\$ or US-6626272-\$ or US-4005768-\$ or US-4257498-\$ or US-4085824-\$).did.	USPAT	2004/03/17 06:17
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		3	6155650.URPN.	USPAT	2004/03/17 06:18
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		4	("2655236" "4005768" "4250979" "4317508").PN.	USPAT	2004/03/17 06:21
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		0	188/264w.cccls. and caliper	USOCR	2004/03/17 06:33
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		6	3433328.URPN.	USPAT	2004/03/17 07:04

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	8	("D291189" "5538105" "D378363" "D397968" "D417178" "D458199" "D468242" "D468243").PN.	USPAT	2004/03/17 05:56
	6	D291189.URPN.	USPAT	2004/03/17 05:57
	1	D397968.URPN.	USPAT	2004/03/17 05:58
	2	("D291189" "D377774").PN.	USPAT	2004/03/17 05:58
	8	("D291189" "5538105" "D378363" "D397968" "D417178" "D458199" "D468242" "D468243").PN.	USPAT	2004/03/17 05:59
	2	("D291189" "D377774").PN.	USPAT	2004/03/17 05:59
	15	caliper same cover and d\$.ccls.	USPAT; US-PGPUB	2004/03/17 05:59
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	558	brak\$4 same caliper same (enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/17 06:33
	25	brak\$4 same caliper same (dust adj cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/17 06:04
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	1	4295549.URPN.	USPAT	2004/03/17 06:06
	1	"4005768".PN.	USPAT	2004/03/17 06:06
	3	4085824.URPN.	USPAT	2004/03/17 06:07
	2	("3354992" "3972391").PN.	USPAT	2004/03/17 06:07
	7	(US-6578678-\$ or US-6371260-\$ or US-4295549-\$ or US-6626272-\$ or US-4005768-\$ or US-4257498-\$ or US-4085824-\$).did.	USPAT	2004/03/17 06:17
	48	brak\$4 same caliper same (enclosure or shield or cover) near4 (debris or dust or stone or dirt)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/17 06:45
	3	6155650.URPN.	USPAT	2004/03/17 06:18
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	0	188/264w.cccls. and caliper	USOCR	2004/03/17 06:33
	16	brak\$4 same caliper same (enclosure or shield or cover) near4 (debris or dust or stone or dirt)	USOCR	2004/03/17 08:34
	6	3433328.URPN.	USPAT	2004/03/17 07:04
	17	brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:36

-	24	brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:36
-	7	(brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not (brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 08:38
-	1	1981-L3246D.NRAN.	DERWENT	2004/03/17 08:37
-	1	("4450940").PN.	USPAT;	2004/03/17 08:38
-	17	(brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not ((brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt or heat) same caliper near5 (deflector or protector or enclosure or shield or cover)) not (brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) near4 (debris or dust or stone or dirt) same caliper near5 (deflector or protector or enclosure or shield or cover)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 09:41
-	4	("3354992" "4005768" "4164273" "4360083").PN.	USPAT	2004/03/17 08:40
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-	1	("4155601").PN.	USPAT; US-PGPUB	2004/03/17 09:07
-	1	("4744606").PN.	USPAT; US-PGPUB	2004/03/17 09:18
-	133	brak\$4 same caliper same (deflector or protector or enclosure or shield or cover) same (debris or dust or stone or dirt or heat)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:43
-	3	dust adj cover and d12/\$.ccls.	USPAT; US-PGPUB	2004/03/17 09:49
-	23	brak\$ same cover and d12/\$.ccls.	USPAT; US-PGPUB	2004/03/17 09:50
-	257	d12/180.ccls.	USPAT; US-PGPUB	2004/03/17 09:54
-	95	HARCO.asn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:03
-	10	HARCO.asn. and brak\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:03
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-	8	(US-3495689-\$ or US-3421607-\$ or US-3403761-\$ or US-3395780-\$ or US-3310135-\$ or US-3298469-\$ or US-3260332-\$ or US-3081843-\$).did.	USOCR	2004/03/17 10:38
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-	413	brak\$4 same caliper same cover!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:45
-	165	brak\$4 same caliper near7 cover!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:45
-	216	brak\$4 with caliper with cover!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:47
-	51	brak\$4 with caliper with (shield or protector or cover!) with (dust or water or heat or debris or decorative)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:56
-	28	brak\$4 with caliper with cover! with (dust or water or heat or debris)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:56
-	1	brak\$4 with caliper with cover! with wheel near5 openings!	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:55
-	0	brak\$4 with caliper with cover! with wheel near5 openings!	USOCR	2004/03/17 10:55
-	1	brak\$4 with caliper with (shield or protector or cover!) with (dust or water or heat or debris or decorative)	USOCR	2004/03/17 10:56
-	0	brak\$4 with caliper with cover! with (dust or water or heat or debris)	USOCR	2004/03/17 10:56

-	151	(188/264w).CCLS.	USPAT; US-PGPUB	2004/03/17 10:57
-	0	("decorative adj4 wheel same openings!").PN.	USPAT; US-PGPUB	2004/03/17 10:58
-	0	decorative adj4 wheel same openings! same dust	USPAT; US-PGPUB	2004/03/17 10:59
-	0	decorative adj4 wheel same openings! same dust	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:59
-	0	decorative same wheel same openings! same dust	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:59
-	1	decorative same wheel same dust adj cover	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/17 10:59

PLUS 3/17/04

Butler, Douglas

From: PLUS
Sent: Friday, February 27, 2004 2:53 PM
To: Butler, Douglas
Subject: PLUS Results for 10601739

Here are the PLUS search results for 10601739.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10601739_QUAL.txt



10601739_LIST.txt



10601739_WEST.txt



10601739_EAST.txt



10601739.east



10601739_CLS.txt



10601739_CLSTITLES.t



10601739_WDS.txt

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10601739_LIST

PLUS Search Results for S/N 10601739, Searched February 27, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10601739_EAST

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10601739_EAST

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10601739_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10601739 on February 27, 2004

Original Classifications

11 188/18A
9 188/72.4
9 188/73.38
8 188/71.6
8 188/73.44
6 188/72.5
6 188/73.45
5 188/24.11
5 188/24.19
5 188/71.9
4 188/218XL
4 188/24.12
4 188/24.16
4 188/24.21
4 188/24.22
4 188/72.7
4 188/73.35
4 280/276
3 82/112
3 180/227
3 188/218A
3 188/24.14
3 188/264G
3 188/59
3 188/72.6
3 188/72.9
3 188/73.31
3 188/73.32
3 188/73.34
3 188/73.36
3 188/73.39
3 188/73.43
3 192/217.1
3 301/6.8
2 29/897.2
2 92/248
2 180/219
2 188/1.11L
2 188/1.11W
2 188/344
2 188/352
2 188/70R
2 188/71.1
2 188/71.5
2 188/72.1
2 188/72.3
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2 188/73.33
2 188/73.37
2 280/124.154
2 280/234
2 280/304.1
2 280/93.512
2 303/15

2 303/2
2 451/63
2 482/57

Cross-Reference Classifications

29 188/73.45
17 188/72.4
14 188/18A
13 188/72.9
12 188/73.39
10 188/370
10 188/73.1
9 188/250B
9 188/71.8
9 188/73.38
8 188/264G
8 188/72.7
7 188/71.5
7 188/72.5
6 188/106F
6 188/196BA
6 188/218A
6 188/24.12
6 188/24.22
6 188/250G
6 188/26
6 188/344
6 188/71.1
6 188/71.9
6 188/72.6
6 188/72.8
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3 188/73.34

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3 188/73.44
3 192/70.19
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2 280/11.231
2 280/124.125
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2 280/5.513
2 280/87.041
2 301/124.1
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2 303/9.61
2 303/DIG 10
2 403/4
2 451/902

10601739_CLS

35 188/73.45
26 188/72.4
25 188/18A
18 188/73.38
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4 92/248
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4 188/1.11E
4 188/106P
4 188/24.16
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4 188/250E
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4 192/217.1
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3 280/281.1
3 303/115.2
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3 403/408.1
2 29/239
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2 92/168
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10601739_CLS

2 280/261
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2 280/288.4
2 280/304.1
2 280/5.513
2 280/87.041
2 301/124.1
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2 303/119.2
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2 303/7
2 303/9.61
2 303/DIG 10
2 403/4
2 451/63
2 451/902
2 475/331
2 482/57

10601739_CLSTITLES
Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10601739 on February 27, 2004

35 188/73.45 (6 OR, 29 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.43 ...Including actuator slidable in plane
parallel to axis of rotation of wheel
188/73.44On axially extending pin
188/73.45Plural pins

26 188/72.4 (9 OR, 17 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.4 ...By fluid pressure piston

25 188/18A (11 OR, 14 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/17 .Hub or disk
188/18R ..Motor vehicle
188/18A ...Disc brakes

18 188/73.38 (9 OR, 9 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.37 ...Having means to prevent vibration of brake
element
188/73.38Spring

16 188/72.9 (3 OR, 13 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.9 ...By pivoted lever

15 188/73.39 (3 OR, 12 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.39 ...Including torque member supporting brake
element

13 188/72.5 (6 OR, 7 XR)
Class 188 : BRAKES

10601739_CLSTITLES

188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.4 ...By fluid pressure piston
188/72.5Piston for each of plural elements

12 188/72.7 (4 OR, 8 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.7 ...By inclined surface (e.g., wedge, cam or
screw)

11 188/264G (3 OR, 8 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R .Cooling and lubricating
188/264G ..Insulators

11 188/71.9 (5 OR, 6 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/71.7 ..With means to adjust for wear of brake
188/71.8 ...Self-adjusting means
188/71.9Including unidirectionally rotating screw

11 188/73.1 (1 OR, 10 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.1 ..Structure of brake element

11 188/73.44 (8 OR, 3 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.43 ...Including actuator slideable in plane
parallel to axis of rotation of wheel
188/73.44On axially extending pin

10 188/24.12 (4 OR, 6 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of
wheel rim or tire

10 188/24.22 (4 OR, 6 XR)
Class 188 : BRAKES
188/2R VEHICLE

10601739_CLSTITLES

188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of
 wheel rim or tire
188/24.22 ...Specific actuator element structure

10 188/250B (1 OR, 9 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/250R .Shoes
188/250B ..Shoe construction

10 188/370 (0 OR, 10 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/151R .Fluid pressure
188/152 ..Road vehicle
188/361 ...Wheel brake operating assembly
188/369With axially movable brake member
188/370Spot type

10 188/71.6 (8 OR, 2 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
 therefor
188/71.6 ..With means for cooling brake

10 188/71.8 (1 OR, 9 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
 therefor
188/71.7 ..With means to adjust for wear of brake
188/71.8 ...Self-adjusting means

9 188/218A (3 OR, 6 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/218R .Brake wheels
188/218A ..Dust guard

9 188/24.19 (5 OR, 4 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of
 wheel rim or tire
188/24.19 ...Having means to adjust spacing between brake
 component and wheel rim or tire

9 188/71.5 (2 OR, 7 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
 therefor
188/71.5 ..Plural rotating elements (e.g., "multidisc")

9 188/72.6 (3 OR, 6 XR)

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Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing therefor
188/72.1 ..With means for actuating brake element
188/72.4 ...By fluid pressure piston
188/72.6And/or mechanical linkage

9 188/73.43 (3 OR, 6 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing therefor
188/73.31 ..Retainer for brake element
188/73.43 ...Including actuator slidable in plane parallel to axis of rotation of wheel

8 188/218XL (4 OR, 4 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/218R .Brake wheels
188/218XL ..Disk type

8 188/24.11 (5 OR, 3 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)

8 188/24.21 (4 OR, 4 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of wheel rim or tire
188/24.21 ...Having center-pull, cable-type actuator for mechanism

8 188/344 (2 OR, 6 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/151R .Fluid pressure
188/152 ..Road vehicle
188/344 ...Velocipede

8 188/71.1 (2 OR, 6 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing therefor

8 188/72.8 (2 OR, 6 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing therefor
188/72.1 ..With means for actuating brake element
188/72.7 ...By inclined surface (e.g., wedge, cam or screw)
188/72.8Screw or helical cam

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- 8 188/73.31 (3 OR, 5 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
- 8 188/73.32 (3 OR, 5 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.32 ...Having means to facilitate changing brake
element
- 7 188/26 (1 OR, 6 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/26 ..Hub or disk
- 7 188/73.37 (2 OR, 5 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.37 ...Having means to prevent vibration of brake
element
- 6 180/219 (2 OR, 4 XR)
Class 180 : MOTOR VEHICLES
180/21 SPECIAL WHEEL BASE
180/218 .Having only two wheels
180/219 ..Arranged in tandem
- 6 188/106F (0 OR, 6 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/105 .Multiple
188/106R ..Vehicle
188/106F ...Fluid and mechanical
- 6 188/196BA (0 OR, 6 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/196R .Slack
188/196B ..Ratchet
188/196BA ...Rotatable
- 6 188/250G (0 OR, 6 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/250R .Shoes
188/250G ..Surfaces and fasteners
- 6 188/2D (1 OR, 5 XR)

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Class 188 : BRAKES
188/2R VEHICLE
188/2D .Bowdin wire-operated

6 188/72.3 (2 OR, 4 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.3 ...And means for retracting brake element

6 188/73.34 (3 OR, 3 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.32 ...Having means to facilitate changing brake
element
188/73.33By manipulation of brake actuator
188/73.34Pivotal actuator

6 280/93.512 (2 OR, 4 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/80.1 .Running gear
280/771 ..Occupant steered
280/93.502 ...Linkage
280/93.512Kingpin, steering knuckle, steering arm, or
wheel carrier construction

5 74/489 (1 OR, 4 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/479.01 .Multiple controlling elements for single
controlled element
74/484R ..Steering and controls assemblies
74/486 ...Reciprocating control elements
74/488Handle bar type
74/489Flexible control element

5 74/502.2 (1 OR, 4 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/491 .Hand operated
74/500.5 ..Flexible transmitter (e.g., Bowden cable)
74/501.6 ...And hand operator
74/502.2Single rotatable lever (e.g., for bicycle
brake or derailleur)

5 82/112 (3 OR, 2 XR)
Class 082 : TURNING
82/112 PORTABLE LATHE FOR BRAKE DRUM, DISC, OR SHOE

5 188/196M (0 OR, 5 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/196R .Slack

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188/196M ..Manual

5 188/205A (0 OR, 5 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/205R .Supports
188/205A ..Antirattler

5 188/59 (3 OR, 2 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/33 .Railway
188/58 ..Disk on axle
188/59 ...Side shoes

5 188/73.35 (4 OR, 1 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.35 ...Having actuator and means to prevent
vibration thereof

5 188/73.36 (3 OR, 2 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.35 ...Having actuator and means to prevent
vibration thereof
188/73.36Including means to prevent vibration of
brake element

5 188/73.47 (1 OR, 4 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.47 ...Having closed loop type housing

5 301/6.8 (3 OR, 2 XR)
Class 301 : LAND VEHICLES: WHEELS AND AXLES
301/5.1 WHEEL
301/6.1 .With drive or brake attachment
301/6.8 ..Disc brake

4 92/248 (2 OR, 2 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/172 PISTON
92/248 .Nonmetallic portion

4 180/227 (3 OR, 1 XR)
Class 180 : MOTOR VEHICLES
180/21 SPECIAL WHEEL BASE
180/218 .Having only two wheels
180/219 ..Arranged in tandem

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180/227 ... Including resilient means for mounting driven wheel

4 188/1.11E (0 OR, 4 XR)
Class 188 : BRAKES
188/1.11R WITH CONDITION INDICATOR
188/1.11E .Electrical

4 188/106P (1 OR, 3 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/105 .Multiple
188/106R ..Vehicle
188/106P ...Plural systems

4 188/24.16 (4 OR, 0 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of wheel rim or tire
188/24.14 ...Having means to increase braking force (e.g., self-energizing brake, etc.)
188/24.16Plural brakes having common actuator

4 188/24.17 (1 OR, 3 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 .Velocipede (e.g., bicycle, etc.)
188/24.12 ..Including mechanism for opposed gripping of wheel rim or tire
188/24.17 ...Actuation controlled by back-pedalling

4 188/250E (1 OR, 3 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/250R .Shoes
188/250E ..Slotted shoes and vibration dampers

4 188/264AA (0 OR, 4 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R .Cooling and lubricating
188/264A ..Air-cooled, axially engaging
188/264AA ...Auto wheel type

4 192/217.1 (3 OR, 1 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/215 TRANSMISSION AND BRAKE
192/217 .Velocipede
192/217.1 ..Back-pedaling brake (e.g., coaster brake)

4 280/276 (4 OR, 0 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/263 ..With steering
280/270 ...One-wheel controlled
280/274Frames and running gear

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280/275Yielding
280/276Front forks and heads

4 280/284 (1 OR, 3 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 . Occupant propelled type
280/281.1 .. Frames and running gear
280/283 ... Yielding
280/284 Rear forks

3 29/266 (0 OR, 3 XR)
Class 029 : METAL WORKING
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE
29/244 . Puller or pusher means, contained force
.... multiplying operator
29/256 .. Having screw operator
29/258 ... Central screw, work-engagers around screw
29/266 Plate or bar forms work-engager

3 188/1.11W (2 OR, 1 XR)
Class 188 : BRAKES
188/1.11R WITH CONDITION INDICATOR
188/1.11W . Wear

3 188/140R (0 OR, 3 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/110 . Automatic
188/135 .. Momentum
188/140R ... Vehicle

3 188/162 (0 OR, 3 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/158 . Electric
188/161 .. Electromagnet
188/162 ... Rotary motor

3 188/24.14 (3 OR, 0 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/24.11 . Velocipede (e.g., bicycle, etc.)
188/24.12 .. Including mechanism for opposed gripping of
.... wheel rim or tire
188/24.14 ... Having means to increase braking force
(e.g., self-energizing brake, etc.)

3 188/264F (1 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R . Cooling and lubricating
188/264F .. Operating fluid cooling

3 188/2F (1 OR, 2 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/2F . Wheelchair brakes

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- 3 188/345 (1 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/151R .Fluid pressure
188/152 ..Road vehicle
188/345 ...With multiple master cylinders
- 3 188/352 (2 OR, 1 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/151R .Fluid pressure
188/152 ..Road vehicle
188/352 ...With bleeding or filling device
- 3 188/5 (0 OR, 3 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/5 .Ground-engaging
- 3 188/72.1 (2 OR, 1 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
- 3 188/72.2 (0 OR, 3 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/72.1 ..With means for actuating brake element
188/72.2 ...Self-force-increasing means
- 3 188/73.33 (2 OR, 1 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.32 ...Having means to facilitate changing brake
element
188/73.33By manipulation of brake actuator
- 3 192/70.19 (0 OR, 3 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/66.1 .Axially engaging
192/70.11 ..Interposed, mating clutch-elements
192/70.16 ...With torque connection between
clutch-element and its shaft
192/70.19Axially slid able connection
- 3 280/124.154 (2 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/80.1 .Running gear
280/124.1 ..Suspension arrangement
280/124.125 ...Wheel separately supported upon individual

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stub axle (e.g., skein, spindle)
280/124.154Vertically extending telescopic strut

3 280/277 (1 OR, 2 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/263 ..With steering
280/270 ...One-wheel controlled
280/274Frames and running gear
280/275Yielding
280/276Front forks and heads
280/277Independent wheel mounting

3 280/281.1 (0 OR, 3 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/281.1 ..Frames and running gear

3 303/115.2 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel lock signal
303/115.1 ..System controlled by expandible chamber type modulator
303/115.2 ...Having electric control

3 303/191 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/191 .Odd condition or device detection (e.g., fluid or brake temperature, hill holder, anti-squeal controller acoustic emission)

3 303/20 (1 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/20 ELECTRIC CONTROL

3 303/DIG 3 (0 OR, 3 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
303/DIG 3 .Electrical pressure sensor

3 403/408.1 (0 OR, 3 XR)
Class 403 : JOINTS AND CONNECTIONS
403/408.1 HAVING A JOINING PIECE EXTENDING THROUGH
ALIGNED OPENINGS IN PLURAL MEMBERS

2 29/239 (1 OR, 1 XR)
Class 029 : METAL WORKING
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE
29/239 .Spreading parts apart or separating them from face to face engagement

2 29/897 (0 OR, 2 XR)
Class 029 : METAL WORKING

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29/592 METHOD OF MECHANICAL MANUFACTURE
29/897 .Structural member making

2 29/897.2 (2 OR, 0 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/897 .Structural member making
29/897.2 ..Vehicular structural member making

2 29/897.3 (0 OR, 2 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/897 .Structural member making
29/897.3 ..Static structure, e.g., a building component

2 74/18.2 (0 OR, 2 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/18 FLEXIBLE SEALING DIAPHRAGM ATTACHED TO MOVING
 ROD AND TO CASING
74/18.2 .Longitudinally reciprocating rod

2 74/594.2 (0 OR, 2 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/594.1 .Cranks and pedals
74/594.2 ..With attached gear

2 92/168 (0 OR, 2 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/165R WITH GUIDE OR SEAL ON CYLINDER END PORTION FOR
 PISTON OR MEMBER MOVED BY PISTON
92/168 .Non-metallic seal means between piston or
 member and end portion

2 92/212 (1 OR, 1 XR)
Class 092 : EXPANSIBLE CHAMBER DEVICES
92/172 PISTON
92/208 .Open-ended hollow skirt type (e.g., trunk
 type)
92/212 ..With nonmetallic portion

2 180/190 (1 OR, 1 XR)
Class 180 : MOTOR VEHICLES
180/182 INCLUDING ONE OR MORE SKI-LIKE OR RUNNER
 MEMBERS
180/186 .With at least one surface-engaging propulsion
 element
180/190 ..Endless track type element

2 180/231 (0 OR, 2 XR)
Class 180 : MOTOR VEHICLES
180/21 SPECIAL WHEEL BASE
180/218 .Having only two wheels
180/219 ..Arranged in tandem
180/231 ...Including endless element for transmitting
 drive and means for adjusting tension of element

2 180/65.6 (0 OR, 2 XR)

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Class 180 : MOTOR VEHICLES
180/54.1 POWER
180/65.1 .Electric
180/65.6 ..With gearing between electric motor and drive wheel

2 188/1.11L (2 OR, 0 XR)
Class 188 : BRAKES
188/1.11R WITH CONDITION INDICATOR
188/1.11W .Wear
188/1.11L ..Electrical

2 188/181A (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/174 .Weight
188/180 ..Regulators
188/181R ...Vehicle
188/181AAcceleration responsive

2 188/196D (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/196R .Slack
188/196D ..Frictional rotation

2 188/196P (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/196R .Slack
188/196P ..Friction

2 188/218R (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/218R .Brake wheels

2 188/264A (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R .Cooling and lubricating
188/264A ..Air-cooled, axially engaging

2 188/264P (0 OR, 2 XR)
Class 188 : BRAKES
188/381 FRICTIONAL VIBRATION DAMPER
188/264R .Cooling and lubricating
188/264P ..With pump

2 188/272 (0 OR, 2 XR)
Class 188 : BRAKES
188/266 INTERNAL-RESISTANCE MOTION RETARDER
188/272 .Combined with mechanism retarded by brake

2 188/29 (0 OR, 2 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/29 .Top shoes

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2 188/33 (1 OR, 1 XR)
Class 188 : BRAKES
188/2R VEHICLE
188/33 .Railway

2 188/70R (2 OR, 0 XR)
Class 188 : BRAKES
188/67 ROD
188/70R .Axially and transversely movable

2 188/73.46 (1 OR, 1 XR)
Class 188 : BRAKES
188/67 ROD
188/71.1 .Axially movable brake element or housing
therefor
188/73.31 ..Retainer for brake element
188/73.46 ...Including actuator fixed on torque member

2 188/DIG 1 (0 OR, 2 XR)
Class 188 : BRAKES
188/DIG 1 PANIC BRAKING

2 192/111A (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/111R .Wear compensators
192/111A ..Automatic wear compensators

2 192/113.3 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/113.1 .Lubricating, insulating, or cooling
192/113.3 ..Liquid cooled or lubricated clutch surfaces

2 192/35 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/31 .Automatic
192/32 ..Manual control
192/35 ...Pilot mechanism

2 192/70.24 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/66.1 .Axially engaging
192/70.11 ..Interposed, mating clutch-elements
192/70.23 ...With cam or wedge contacting clutch-element
or pressure plate for axial movement thereof
192/70.24By cam surface on bell-crank

2 192/94 (0 OR, 2 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/82R .Operators
192/94 ..Screw

2 280/11.231 (0 OR, 2 XR)
Class 280 : LAND VEHICLES

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280/841 SKATES
280/11.19 .Wheeled skate
280/11.221 ..In-line wheels (e.g., in-line skates)
280/11.231 ...Three or four wheels

2 280/124.125 (0 OR, 2 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/80.1 .Running gear
280/124.1 ..Suspension arrangement
280/124.125 ...Wheel separately supported upon individual
 stub axle (e.g., skein, spindle)

2 280/124.145 (1 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/80.1 .Running gear
280/124.1 ..Suspension arrangement
280/124.125 ...Wheel separately supported upon individual
 stub axle (e.g., skein, spindle)
280/124.134Lateral control arm (i.e., suspension arm)

280/124.145Including vertically extending strut

2 280/234 (2 OR, 0 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/210 ..With propulsion means
280/230 ...Plural power application
280/233Hand and foot
280/234Interconnected steering means

2 280/236 (1 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/210 ..With propulsion means
280/236 ...Reversing and power ratio change

2 280/261 (1 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/210 ..With propulsion means
280/259 ...Rotary crank power
280/260With gearing
280/261Belt or chain

2 280/288 (0 OR, 2 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/281.1 ..Frames and running gear
280/288 ...Rear forks

2 280/288.4 (1 OR, 1 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED

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280/200 .Occupant propelled type
280/288.4 ..Attachments and accessories

2 280/304.1 (2 OR, 0 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/200 .Occupant propelled type
280/288.4 ..Attachments and accessories
280/304.1 ...Wheelchair

2 280/5.513 (0 OR, 2 XR)
Class 280 : LAND VEHICLES
280/5.5 SUSPENSION MODIFICATION ENACTED DURING TRAVEL
(I.E., ACTIVE SUSPENSION CONTROL)
280/5.513 .Longitudinal vehicle disposition (e.g.,
antidive, antipitch, antisquat)

2 280/87.041 (0 OR, 2 XR)
Class 280 : LAND VEHICLES
280/29 WHEELED
280/87.01 .Coasters
280/87.021 ..Occupant-pushed
280/87.041 ...Standing occupant

2 301/124.1 (0 OR, 2 XR)
Class 301 : LAND VEHICLES: WHEELS AND AXLES
301/124.1 AXLE

2 301/6.9 (0 OR, 2 XR)
Class 301 : LAND VEHICLES: WHEELS AND AXLES
301/5.1 WHEEL
301/6.1 .With drive or brake attachment
301/6.9 ..For cycle-type vehicle

2 301/6.91 (0 OR, 2 XR)
Class 301 : LAND VEHICLES: WHEELS AND AXLES
301/5.1 WHEEL
301/6.1 .With drive or brake attachment
301/6.91 ..Having vibration damper or heat insulator

2 301/67 (0 OR, 2 XR)
Class 301 : LAND VEHICLES: WHEELS AND AXLES
301/5.1 WHEEL
301/62 .Compression wheel
301/67 ..Rim (or felly) and spoke connection

2 303/119.2 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/113.1 .Having a valve system responsive to a wheel
lock signal
303/119.1 ..System controlled by solenoid valve
303/119.2 ...System solenoid valve detail

2 303/122.09 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/122 .With failure responsive means
303/122.09 ..Pressure failure

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- 2 303/122.13 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/122 .With failure responsive means
303/122.09 ..Pressure failure
303/122.13 ...Auxiliary pressure failure
- 2 303/137 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/137 .Motorcycle
- 2 303/15 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/13 MULTIPLE CONTROL
303/15 .Fluid and electric
- 2 303/163 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/121 SPEED-CONTROLLED
303/163 .Slip ratio
- 2 303/2 (2 OR, 0 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/2 MULTIPLE SYSTEMS
- 2 303/3 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/2 MULTIPLE SYSTEMS
303/3 .Fluid pressure and electric
- 2 303/68 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/50 MOTORMAN'S VALVES
303/68 .Motor
- 2 303/7 (1 OR, 1 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/7 ..Sectional train
- 2 303/9.61 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/5 MULTIPLE FLUID-RECEIVING DEVICES
303/6.01 .Multiple motors
303/9.61 ..Separate and simultaneous control
- 2 303/DIG 10 (0 OR, 2 XR)
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
303/DIG 10 VALVE BLOCK INTEGRATING PUMP, VALVES, SOLENOID,
ACCUMULATOR, ETC.
- 2 403/4 (0 OR, 2 XR)
Class 403 : JOINTS AND CONNECTIONS
403/3 SELECTIVELY ASSEMBLED, E.G., CONVERTIBLE, ETC.
403/4 .Selective orientation

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2 451/63 (2 OR, 0 XR)
Class 451 : ABRADING
451/28 ABRADING PROCESS
451/63 .Side face of disk

2 451/902 (0 OR, 2 XR)
Class 451 : ABRADING
451/902 BRAKE ABRADING

2 475/331 (1 OR, 1 XR)
Class 475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR
COMPONENTS
475/331 PLANETARY GEARING OR ELEMENT

2 482/57 (2 OR, 0 XR)
Class 482 : EXERCISE DEVICES
482/51 INVOLVING USER TRANSLATION OR PHYSICAL
SIMULATION THEREOF
482/57 .Bicycling